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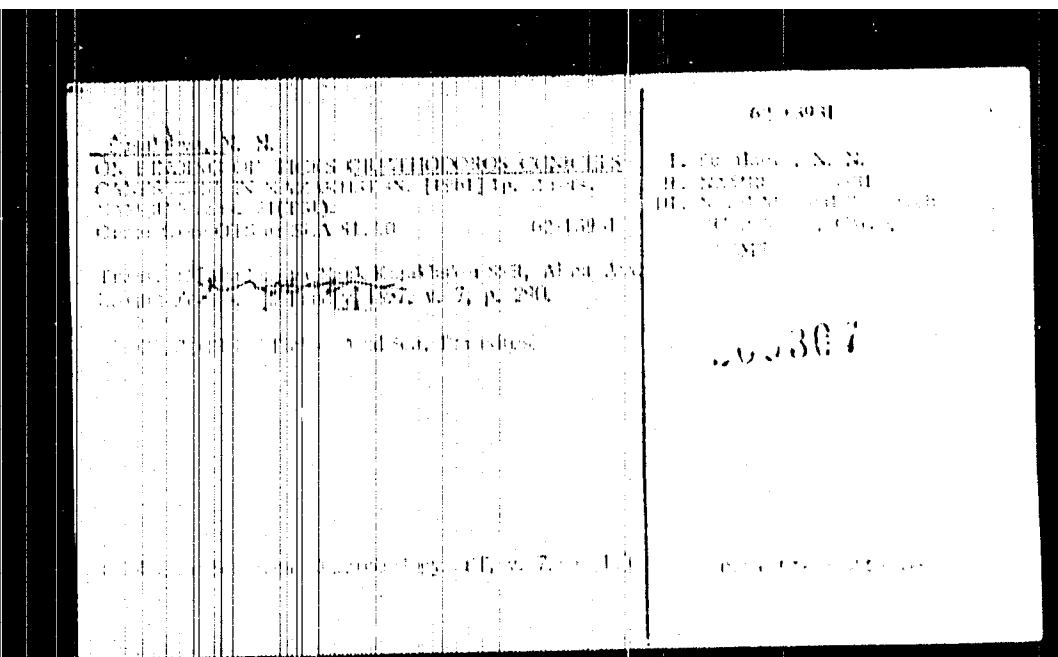
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DESCRIPTION: Liquids, *Selenium, *Tellurium, *Mag-
netic susceptibility.

(Physics-Magnetism, TT, v. 7, no. 6)

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Variation of the electrical and magnetic properties
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DESCRIPTORS: Selenides. Tellurides. *Minerals.
*Semiconductors. Energy. Lattices.

New semiconductor compounds can be obtained by com-
bination of binary semiconductors. However, the
possible mixing ratios must usually first be determined
experimentally. An indication of possible stoichiometric
relations in ternary and quaternary selenide and
telluride semiconductors is obtained from the natural
nonmetallic sulfide minerals. Partial replacement of the
elements in the minerals by chemically related ones
leads to a large number of new semiconductor with
(Physics--Solid State. TT. v. 6, no. 6) (over)

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DESCRIPTORS: *Liquid metals, Melting, *Semicon-
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 High temperature research, Sodium, Zinc, Cadmium,
 Mercury, Gallium, Germanium, Antimony, Tellurium,
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An apparatus is described for measuring the Hall effect
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TT-64-12233

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Economics, Steel, Castings, Adhesives, Material
forming.

With the development of solidification oils on artificial
resin base in the grades No. 1, 2 and 3 an attempt
was made to combine the good properties of the solidi-
fication oils with those of the artificial resins and to
employ them in steel foundries. The experiments
achieved the goal of mass producing finished cores
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